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1 Multitrees: enriching and reusing hierarchical structure
       George W. Furnas, Jeff Zacks
       April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**
       Publisher: ACM Press
       Full text available: ▦ pdf(810.31 KB)   Additional Information: full citation, references, citings, index terms

       Keywords: directed graphs, graphical browsers, hierarchies, hypertext structures, information graphs, representation, reuse

2 A distributed database architecture for global roaming in next-generation mobile networks
       Zuji Mao, Christos Douligeris
       February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
       Publisher: IEEE Press
       Full text available: ▦ pdf(427.81 KB)   Additional Information: full citation, abstract, references, index terms

       The next-generation mobile network will support terminal mobility, personal mobility, and service provider portability, making global roaming seamless. A location-independent personal telecommunication number (PTN) scheme is conducive to implementing such a global mobile system. However, the nongeographic PTNs coupled with the anticipated large number of mobile users in future mobile networks may introduce very large centralized databases. This necessitates research into the design and performan ...

       Keywords: database architecture, location management, location tracking, mobile networks

3 Multitrees: enriching and reusing hierarchical structure
       George W. Furnas, Jeff Zacks
       April 1994 **Conference companion on Human factors in computing systems**
       Publisher: ACM Press
       Full text available: ▦ pdf(69.44 KB)   Additional Information: full citation

4 Hyperstructure: A comparison of hyperstructures: zzstructures, mSpaces, and polyarchies
       Michael J. McGuffin, m. c. schraefel
       August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
       Publisher: ACM Press

Hypermedia applications tend to use simple representations for navigation: most commonly, nodes are organized within an unconstrained graph, and users are presented with embedded links or lists of links. Recently, new data structures have emerged which may serve as alternative models for both the organization, and presentation, of hypertextual nodes and links. In this paper, we consider zzstructures, mSpaces, and polyarchies from the perspective of graph theory, and compare these models formally ...

Keywords: ZigZag, connective structures, edge-coloured graphs, mSpace, multitrees, polyarchies, zzstructures

5 A comparison of set-based and graph-based visualisations of overlapping classification hierarchies

Martin Graham, Jessie B. Kennedy, Chris Hand

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

The visualisation of hierarchical information sets has been a staple of Information Visualisation since the field came into being in the early 1990's. However, at present, support for visualising the correlations between multiple, overlapping sets of hierarchical information has been lacking. This is despite the realisation that for certain tasks this information is as important as the information that forms the individual hierarchies. In response to this, we have produced two early visuali ...

Keywords: authors kit, conference publications, guides, instructions

6 An incremental algorithm for satisfying hierarchies of multiway dataflow constraints

Brad Vander Zanden

January 1996 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 18 Issue 1

Publisher: ACM Press

One-way dataflow constraints have gained popularity in many types of interactive systems because of their simplicity, efficiency, and manageability. Although it is widely acknowledged that multiway dataflow constraint could make it easier to specify certain relationships in these applications, concerns about their predictability and efficiency have impeded their acceptance. Constraint hierarchies have been developed to address the predictability problem, and incremental algorithms have been ...

Keywords: constraints, incremental constraint satisfaction, interactive systems

7 Cost models for overlapping and multiversion structures

Yufei Tao, Dimitris Papadias, Jun Zhang

September 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 3

Publisher: ACM Press

Overlapping and *multiversion* techniques are two popular frameworks that transform an ephemeral index into a multiple logical-tree structure in order to support versioning databases. Although both frameworks have produced numerous efficient indexing methods, their performance analysis is rather limited; as a result there is no clear understanding about the behavior of the alternative structures and the choice of the best one, given the data and query characteristics. Furthermore, qu ...

Keywords: Database, index, overlapping and multiversion structures, spatiotemporal, temporal

8 Student posters: Supporting user-specific views via multidimensional trees

Hartmut Obendorf, Sven Bertel, Kai Florian Richter

March 2001 **CHI '01 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(150.42 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Large sets of information need to be structured in order to be usable. Users often build hierarchical representations of information that are both user- and task-specific. Traditional structuring techniques used in information systems often fail to support these hierarchies. We try to support the use of individual concepts of the information space with a general structure. We also try to minimize the number of forced decisions in the user's decision tree.

Keywords: information space, information structure, multidimensional trees, task-specific views, user-specific views

9 Visualizing Patterns: Polyarchy visualization: visualizing multiple intersecting hierarchies

George Robertson, Kim Cameron, Mary Czerwinski, Daniel Robbins

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

Publisher: ACM Press

Full text available: pdf(920.09 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We describe a new information structure composed of multiple intersecting hierarchies, which we call Polyarchies. Visualizing polyarchies enables use of novel views for discovery of relationships which are very difficult using existing hierarchy visualization tools. This paper will describe the visualization design and system architecture challenges as well as our current solutions. A Mid-Tier Cache architecture is used as a "polyarchy server" which supports a novel web-based polyarchy visualiza ...

Keywords: 3D, animation, hierarchy, information visualization, metadirectory, polyarchy, query language, user studies

10 A logic you can count on

Silvano Dal Zilio, Denis Lugiez, Charles Meyssonnier

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '04**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(172.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We prove the decidability of the quantifier-free, static fragment of ambient logic, with composition adjunct and iteration, which corresponds to a kind of regular expression language for semistructured data. The essence of this result is a surprising connection between formulas of the ambient logic and counting constraints on (nested) vectors of integers.Our proof method is based on a new class of tree automata for unranked, unordered trees, which may result in practical algorithms for deciding ...

Keywords: Presburger arithmetic, ambient, semi-structured data, substructural logic, tree automata

11 Evaluating the influence of interface styles and multiple access paths in hypertext

Pawan R. Vora, Martin G. Helander, Valerie L. Shalin

April 1994 **Conference companion on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(69.44 KB)   Additional Information: <u>full citation</u>

12 Session 2: The top speed of flash worms

Stuart Staniford, David Moore, Vern Paxson, Nicholas Weaver
October 2004 **Proceedings of the 2004 ACM workshop on Rapid malcode**

Publisher: ACM Press

Full text available: pdf(365.68 KB)   Additional Information: full citation, abstract, references, index terms

Flash worms follow a precomputed spread tree using prior knowledge of all systems vulnerable to the worm's exploit. In previous work we suggested that a flash worm could saturate one million vulnerable hosts on the Internet in under 30 seconds[18]. We grossly over-estimated.

In this paper, we revisit the problem in the context of single packet UDP worms (inspired by Slammer and Witty). Simulating a flash version of Slammer, calibrated by current Internet latency measurements and observ ...

Keywords: flash worm, modeling, simulation, worms

13 Quickly finding near-optimal storage designs

Eric Anderson, Susan Spence, Ram Swaminathan, Mahesh Kallahalla, Qian Wang
November 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(661.43 KB)   Additional Information: full citation, abstract, references, index terms

Despite the importance of storage in enterprise computer systems, there are few adequate tools to design and configure a storage system to meet application data requirements efficiently. Storage system design involves choosing the disk arrays to use, setting the configuration options on those arrays, and determining an efficient mapping of application data onto the configured system. This is a complex process because of the multitude of disk array configuration options, and the need to take into ...

14 Redundant trees for preplanned recovery in arbitrary vertex-redundant or edge-redundant graphs

Muriel Médard, Steven G. Finn, Richard A. Barry
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Publisher: IEEE Press

Full text available: pdf(251.44 KB)   Additional Information: full citation, references, citings, index terms

Keywords: graph theory, multicasting, network recovery, network robustness, routing, trees

15 HyPursuit: a hierarchical network search engine that exploits content-link hypertext clustering

Ron Weiss, Bienvenido Vélez, Mark A. Sheldon
March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(2.00 MB)   Additional Information: full citation, references, citings, index terms

16 Deciding validity in a spatial logic for trees

Cristiano Calcagno, Luca Cardelli, Andrew D. Gordon
January 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN international workshop on Types in languages design and implementation TLDI '03**, Volume 38 Issue 3

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

(MATH) We consider a propositional spatial logic for finite trees. The logic includes *A* ????
Par *B* (tree composition), *A* ???? *B* (the implication induced by composition), and **O** (the
unit of composition). We show that the satisfaction and validity problems are equivalent,
and decidable. The crux of the argument is devising a finite enumeration of trees to
consider when deciding whether a spatial implication is satisfied. We introduce a sequent
calculus for the lo ...

17 Deadlock-free packet switching networks

Sam Toueg, Jeffrey D. Ullman
April 1979 **Proceedings of the eleventh annual ACM symposium on Theory of
computing**
Publisher: ACM Press

Full text available: pdf(711.05 KB) Additional Information: full citation, abstract, references, citings, index
terms

Deadlock is one of the most serious system failures that can occur in a computer system
or a network. Deadlock states have been observed in existing computer networks
emphasizing the need for carefully designed flow control procedures (controllers) to avoid
deadlocks. Such a deadlock-free controller is readily found if we allow it global information
about the overall network state. Generally, this assumption is not realistic, and we must
resort to deadlock free local controllers using only ...

18 Numerical document queries

Helmut Seidl, Thomas Schwentick, Anca Muscholl
June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART
symposium on Principles of database systems**
Publisher: ACM Press

Full text available: pdf(271.02 KB) Additional Information: full citation, abstract, references, citings, index
terms

A query against a database behind a site like Napster may search, e.g., for all users who
have downloaded more jazz titles than pop music titles. In order to express such queries,
we extend classical monadic second-order logic by *Presburger predicates* which pose
numerical restrictions on the children (content) of an element node and provide a precise
automata-theoretic characterization. While the *existential fragment* of the resulting logic is
decidable, it turns out that satisfiabi ...

Keywords: Presburger arithmetic, automata, monadic second order logic, querying XML
documents

19 Hypermedia-aided design

Darko Kirovski, Milenko Drinic, Miodrag Potkonjak
June 2001 **Proceedings of the 38th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(595.11 KB)   Additional Information: full citation, abstract, references, index terms

Recently, the Internet revolutionized many activities from entertainment to marketing and
business. Two key underlying Internet technologies, efficient data delivery and hypertext,
demonstrated exceptional potential as new application enablers. In this paper, we present
a novel Hypermedia-Aided Design (HAD) collaboration framework that facilitates new
communication and data presentation paradigms to improve the effectiveness of typical
EDA applications. The framework leverages on the advant ...

20 Graphical multiscale Web histories: a study of padprints

Ron R. Hightower, Laura T. Ring, Jonathan I. Helfman, Benjamin B. Bederson, James D.
Hollan
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia :
links, objects, time and space---structure in hypermedia systems: links,
objects, time and space---structure in hypermedia systems**
Publisher: ACM Press

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